

Appl. No. 10/531,191
Amdt. dated September 10, 2008
Response to Office Action of July 11, 2008

The following is a complete listing of all claims in the application:

Listing of Claims:

1. ***(currently amended)*** A method comprising the steps of mixing a compound ~~which releases phosphate ions~~selected from the group consisting of phosphoric acid (H_3PO_4), phosphorous pentoxide (P_2O_5), ammonium dihydrogenphosphate ($NH_4H_2PO_4$), and diammonium hydrogenphosphate [$(NH_4)_2HPO_4$] in a solution with metal iron to cause dissolution and reaction of the metal iron in an acidic solution, and calcining the reaction mixture to synthesize ferric phosphate cathode material for a lithium battery.
2. ***(currently amended)*** A method comprising the steps of reacting a compound selected from the group consisting of phosphoric acid (H_3PO_4), phosphorous pentoxide (P_2O_5), ammonium dihydrogenphosphate ($NH_4H_2PO_4$), and diammonium hydrogenphosphate [$(NH_4)_2HPO_4$]~~which releases phosphate ions~~ in a solution with metal iron while grinding the mixture of the compound and the metal iron in an aqueous solution to renew surfaces of the metal iron, and calcining the reaction mixture to synthesize ferric phosphate cathode material for a lithium battery.
3. ***(canceled)***
4. ***(previously presented)*** A method comprising the steps of adding a conductive carbon to the cathode material produced by the method according to any one of claims 1 to 3 or 6, and pulverizing and mixing the mixture.
5. ***(previously presented)*** A lithium battery using a cathode material produced by the method according to any one of claims 1 to 3 or 6 as a constituent component.

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6. *(canceled)*

7. *(previously presented)* A lithium battery using a cathode material produced by the method according to claim 4 as a constituent component.